1600

CRF Errors Corrected by the STIC Systems Branch

CRF Processing Date: 5/13/2003

Serial Number: 09/729,920B

Edited by:

Verified by: (STIC staff)

ENTERED

RECEIVED
MAY 1 2003
TECH CENTER 1600/2900

#12

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

1600

RAW SEQUENCE LISTING DATE: 05/13/2003
PATENT APPLICATION: **US/09/729,920B** TIME: 11:41:40

Input Set : **A:\PTO.AMC.TXT**
Output Set: **N:\CRF4\05132003\I729920B.raw**

```
 2 <110> APPLICANT: GUEGLER, Karl et al
 4 <120> TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
 5       NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
 6       AND USES THEREOF
 8 <130> FILE REFERENCE: CL000858
10 <140> CURRENT APPLICATION NUMBER: 09/729,920B
11 <141> CURRENT FILING DATE: 2000-12-06
13 <160> NUMBER OF SEQ ID NOS: 5
15 <170> SOFTWARE: FastSEQ for Windows Version 4.0
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 2065
19 <212> TYPE: DNA
20 <213> ORGANISM: Human
22 <400> SEQUENCE: 1
23 ggacactgac atggactgaa ggagtagaaa gctggagtga cactgcagtg ggcttctccg 60
24 tagccccagc cttcaggctg cgcagcccct aacctgccgg caccgctttt gggaagcagc 120
25 ttggctcttc catctcccca agccttcctc tccatccttt catccacccc tcgccgatct 180
26 tacttttttct tttacccacg gggccgcggc cggccacccc ctggccggtg caaacaccca 240
27 agccctctcc agttctcccc caagctaata ttttcccacc tgtctttttc tggggttcct 300
28 ccacgagcca gtccaaggct cccccatcct cggaaattgt tttgttggac tgctaaaccg 360
29 aggcgtgtaa agcttgagga ctttattatt atttgggttc ttttcatttc ttccccttct 420
30 gggcaacgaa gcaatgaaat ttccaatcga gacgccaaga aaacaggtga actgggatcc 480
31 taaagtggcc gttcccgcag cagcaccggt gtgccagccc aagagcgcca ctaacgggca 540
32 acccccggct ccggctccga ctccaactcc gcgcctgtcc atttcctccc gagccacagt 600
33 ggtagccagg atggaaggca cctcccaagg gggcttgcag accgtcatga agtggaagac 660
34 ggtggttgcc atctttgtgg ttgtggtggt ctaccttgtc actggcggtc ttgtcttccg 720
35 ggcattggag cagccctttg agagcagcca gaagaatacc atcgccttgg agaaggcgga 780
36 attcctgcgg gatcatgtct gtgtgagccc ccaggagctg gagacgttga tccagcatgc 840
37 tcttgatgct gacaatgcgg gagtcagtcc aataggaaac tcttccaaca acagcagcca 900
38 ctgggacctc ggcagtgcct ttttctttgc tggaactgtc attacgacca tagggtatgg 960
39 gaatattgct ccgagcactg aaggaggcaa aatcttttgt attttatatg ccatctttgg 1020
40 aattccactc tttggtttct tattggctgg aattggagac caacttggaa ccatctttgg 1080
41 gaaaagcatt gcaagagtgg agaaggtctt tcgaaaaaag caagtgagtc agaccaagat 1140
42 ccgggtcatc tcaaccatcc tgttcatctt ggccggctgc attgtgtttg tgacgatccc 1200
43 tgctgtcatc tttaagtaca tcgagggctg gacggccttg gagtccattt actttgtggt 1260
44 ggtcactctg accacggtgg gctttggtga ttttgtggca gggggaaacg ctggcatcaa 1320
45 ttatcgggag tggtataagc ccctagtgtg gttttggatc cttgttggcc ttgcctactt 1380
46 tgcagctgtc ctcagtatga tcggagattg gctacgggtt ctgtccaaaa agacaaaaga 1440
47 agaggtgggt gaaatcaagg cccatgcggc agagtggaag gccaatgtca cggctgagtt 1500
48 ccgggagaca cggcgaaggc tcagcgtgga gatccacgat aagctgcagc gggcggccac 1560
49 catccgcagc atggagcgcc ggcggctggg cctggaccag cgggcccact cactggacat 1620
50 gctgtccccc gagaagcgct ctgtctttgc tgccctggac accggccgct tcaaggcctc 1680
51 atcccaggag agcatcaaca accggcccaa caacctgcgc ctgaaggggc cggagcagct 1740
```

RAW SEQUENCE LISTING DATE: 05/13/2003
PATENT APPLICATION: **US/09/729,920B** TIME: 11:41:40

Input Set : **A:\PTO.AMC.TXT**
Output Set: **N:\CRF4\05132003\I729920B.raw**

```
52 gaacaagcat gggcagggtg cgtccgagga caacatcatc aacaagttcg ggtccacctc 1800
53 cagactcacc aagaggaaaa acaaggacct caaaaagacc ttgcccgagg acgttcagaa 1860
54 aatctacaag accttccgga attactccct ggacgaggag aagaaagagg aggaaacgga 1920
55 aaagatgtgt aactcagaca actccagcac agccatgctg acggactgta tccagcagca 1980
56 cgctgagttg gagaacggaa tgatacccac ggacaccaaa gaccgggagc cggagaacaa 2040
57 ctcattactt gaagacagaa actaa                                      2065
59 <210> SEQ ID NO: 2
60 <211> LENGTH: 543
61 <212> TYPE: PRT
62 <213> ORGANISM: Human
64 <400> SEQUENCE: 2
65 Met Lys Phe Pro Ile Glu Thr Pro Arg Lys Gln Val Asn Trp Asp Pro
66  1               5                  10                  15
67 Lys Val Ala Val Pro Ala Ala Ala Pro Val Cys Gln Pro Lys Ser Ala
68             20                  25                  30
69 Thr Asn Gly Gln Pro Pro Ala Pro Ala Pro Thr Pro Thr Pro Arg Leu
70         35                  40                  45
71 Ser Ile Ser Ser Arg Ala Thr Val Val Ala Arg Met Glu Gly Thr Ser
72     50                  55                  60
73 Gln Gly Gly Leu Gln Thr Val Met Lys Trp Lys Thr Val Val Ala Ile
74 65                  70                  75                  80
75 Phe Val Val Val Val Val Tyr Leu Val Thr Gly Gly Leu Val Phe Arg
76                 85                  90                  95
77 Ala Leu Glu Gln Pro Phe Glu Ser Ser Gln Lys Asn Thr Ile Ala Leu
78             100                 105                 110
79 Glu Lys Ala Glu Phe Leu Arg Asp His Val Cys Val Ser Pro Gln Glu
80         115                 120                 125
81 Leu Glu Thr Leu Ile Gln His Ala Leu Asp Ala Asp Asn Ala Gly Val
82     130                 135                 140
83 Ser Pro Ile Gly Asn Ser Ser Asn Asn Ser Ser His Trp Asp Leu Gly
84 145                 150                 155                 160
85 Ser Ala Phe Phe Phe Ala Gly Thr Val Ile Thr Thr Ile Gly Tyr Gly
86                 165                 170                 175
87 Asn Ile Ala Pro Ser Thr Glu Gly Gly Lys Ile Phe Cys Ile Leu Tyr
88             180                 185                 190
89 Ala Ile Phe Gly Ile Pro Leu Phe Gly Phe Leu Leu Ala Gly Ile Gly
90         195                 200                 205
91 Asp Gln Leu Gly Thr Ile Phe Gly Lys Ser Ile Ala Arg Val Glu Lys
92     210                 215                 220
93 Val Phe Arg Lys Lys Gln Val Ser Gln Thr Lys Ile Arg Val Ile Ser
94 225                 230                 235                 240
95 Thr Ile Leu Phe Ile Leu Ala Gly Cys Ile Val Phe Val Thr Ile Pro
96                 245                 250                 255
97 Ala Val Ile Phe Lys Tyr Ile Glu Gly Trp Thr Ala Leu Glu Ser Ile
98             260                 265                 270
99 Tyr Phe Val Val Val Thr Leu Thr Thr Val Gly Phe Gly Asp Phe Val
100         275                 280                 285
101 Ala Gly Gly Asn Ala Gly Ile Asn Tyr Arg Glu Trp Tyr Lys Pro Leu
102     290                 295                 300
```

RAW SEQUENCE LISTING DATE: 05/13/2003
PATENT APPLICATION: US/09/729,920B TIME: 11:41:40

Input Set : A:\PTO.AMC.TXT
Output Set: N:\CRF4\05132003\I729920B.raw

```
103 Val Trp Phe Trp Ile Leu Val Gly Leu Ala Tyr Phe Ala Ala Val Leu
104 305                 310                 315                 320
105 Ser Met Ile Gly Asp Trp Leu Arg Val Leu Ser Lys Lys Thr Lys Glu
106                 325                 330                 335
107 Glu Val Gly Glu Ile Lys Ala His Ala Ala Glu Trp Lys Ala Asn Val
108             340                 345                 350
109 Thr Ala Glu Phe Arg Glu Thr Arg Arg Arg Leu Ser Val Glu Ile His
110         355                 360                 365
111 Asp Lys Leu Gln Arg Ala Ala Thr Ile Arg Ser Met Glu Arg Arg Arg
112     370                 375                 380
113 Leu Gly Leu Asp Gln Arg Ala His Ser Leu Asp Met Leu Ser Pro Glu
114 385                 390                 395                 400
115 Lys Arg Ser Val Phe Ala Ala Leu Asp Thr Gly Arg Phe Lys Ala Ser
116                 405                 410                 415
117 Ser Gln Glu Ser Ile Asn Asn Arg Pro Asn Asn Leu Arg Leu Lys Gly
118             420                 425                 430
119 Pro Glu Gln Leu Asn Lys His Gly Gln Gly Ala Ser Glu Asp Asn Ile
120         435                 440                 445
121 Ile Asn Lys Phe Gly Ser Thr Ser Arg Leu Thr Lys Arg Lys Asn Lys
122     450                 455                 460
123 Asp Leu Lys Lys Thr Leu Pro Glu Asp Val Gln Lys Ile Tyr Lys Thr
124 465                 470                 475                 480
125 Phe Arg Asn Tyr Ser Leu Asp Glu Glu Lys Lys Glu Glu Glu Thr Glu
126                 485                 490                 495
127 Lys Met Cys Asn Ser Asp Asn Ser Ser Thr Ala Met Leu Thr Asp Cys
128             500                 505                 510
129 Ile Gln Gln His Ala Glu Leu Glu Asn Gly Met Ile Pro Thr Asp Thr
130         515                 520                 525
131 Lys Asp Arg Glu Pro Glu Asn Asn Ser Leu Leu Glu Asp Arg Asn
132     530                 535                 540
135 <210> SEQ ID NO: 3
136 <211> LENGTH: 143306
137 <212> TYPE: DNA
138 <213> ORGANISM: Human
140 <400> SEQUENCE: 3
141 cctaagggtg cagttcctgc cacaggaatt tgccttggac agtgaactaa ttccccaatg 60
142 cagaccccag aacacaacca taggtcagtt cattttgcaa aggaggaggg cctggaggct 120
143 tggaaaatat cgtatttaga ccttcattac ccaaacgaac ccatgggaca ggttcagggt 180
144 cagattcatg ggtcccggga ctggatgagc tcacaaggtt ctggcatgga gagcatggac 240
145 ctttgtgtca acaaacttgg gtttgaatcc tcatatcgtg accttgggaa tgtttcttta 300
146 tctctctgag ccttgatctt ctcatctgta aaaggaggcc agttacagct tctgcaaaat 360
147 gatctaacaa agatgaatgg agaggaaata tgagatggtg agggggaatt cagtaaatgt 420
148 caatcttgcc tccccgtgct ctgaggactc aggagagggt gtctttctct gctgaagccc 480
149 ctctctgact ctgatgcatg taaaaaacat tgtattgcag tgactgtgct agagtccagc 540
150 tgtccgtgaa cagttaaaga gaagagcgca gagggaggtt cgaaagcctt tcttagaagc 600
151 atctccctct ggacttgaga acagaattta catacacact ggtgtctcgg ggcatggctg 660
152 ggagaagcag agattccttg tttgtttgat ttctatgtct tagccatcct cccagtccta 720
153 gtagagagag gcaaagtgtg gttacagagt ccagggaaga tggttctgaa gcacccggga 780
154 acctgcctaa agggctgaag agtcagagta gcaccatcag attggtacca gttttgcctg 840
```

RAW SEQUENCE LISTING DATE: 05/13/2003
PATENT APPLICATION: US/09/729,920B TIME: 11:41:40

Input Set : A:\PTO.AMC.TXT
Output Set: N:\CRF4\05132003\I729920B.raw

155 aacggggttt gcagagaatt cagggctcca gcctggggtg cctgtgacag cccagtgaca 900
156 aagcactcac ctttcccaca gaccacagcg gacctctgta ggtcttgctc ttggactcag 960
157 aaaccttgat gtgatagtga gggatggatg gtgagaaaga tgctgctgac acagggctcc 1020
158 ccagaagcct caaggtgccg tagagtagca tgcaacttag agatcagctg ctagtgtggg 1080
159 attttaggac cccagctggc aggcatagga atgagctggg caatttctat gcgtaagtaa 1140
160 aggcaacaac aatctaacag gaccttatgg cactagatag taagccccat gaaggcaaga 1200
161 tctctgtctt gttctctgcc atatggccag cacatagcac agtgatggca cttggaaggg 1260
162 gttcaatata tatgttgaat gaacaacaaa ttttagtaac cttatctgga agccagagta 1320
163 ggggtttaaa ctacttccta tccaacactg cagcatgcaa ttcatgtctt catttagcaa 1380
164 gtatttcttg agcacctact acgtgtaagg ctccgttgcg aggcatccga agcaatttgt 1440
165 cagcatcatt catgttgata ctcggagtga cccgttcaag agcacctcag caccacctgg 1500
166 cttttctgaa gactgaggcc ccaccacaaa cccctgtggg gcttcaagca ggggcagtga 1560
167 gagggcgtta gacgaatgct ccaggtttag ccccttccg ggaacaggtc tgggtccctt 1620
168 cgcatctgcc ctgctggtcc caggatcccg gggccgccgc ttccgggagc tgccgggtct 1680
169 tggcaactcc gctttcctcc gggggccccc gtgcctctct caagcctcct ttccagccaa 1740
170 cgaccagcgg ccccagtccg gctgcaggta gctggggaag ggaccaagct gtgccttggg 1800
171 agcgagcttc cccgggcggg gagagcgcag cagatgcgga gcggtcccag aacaaaaggc 1860
172 tcatggctgg cacgggcctc cttggagtgc ggcggggacg tgggttcggg actcaggcga 1920
173 gagagccaga cgcgggagga aaaaaaatga agtgagaaaa gagaaggagg gagagctcag 1980
174 ggtgagagcg gtgagaagag gtgacccgga ggccgaggtc tgcggcggag ccgcagcggc 2040
175 ccttcctccg cctcctgcag cgccttccag gcaaccaagc gtgtctccgg ctgcaactcc 2100
176 agcaagcgcg ccgctgccgc ctccacgccc gcccgccggc cggccgagcc agtaagtagc 2160
177 ggcgcgccca ccgctcgttc cccgcccctc cgcggcttcc ccgccaccgc ccaccgcctc 2220
178 ccgccgcccc gcgggcaagt ccgcgaccgc ctcccgctgc cccgagccgg gtgccggggg 2280
179 ctcagcgcgc cttcccagct gggagcctcg gtccgctgct cgccctgctc cctcttgccg 2340
180 gggcgcggcg tctggggcgc gccgcgggga gggtcgccct cgccgcgcgc tgcccgggcg 2400
181 ccgcgccacc cctacatcca atggctttcg gggagcggga agtggggggc gtcgccgggg 2460
182 gcgaggagcc gcggccgggg tggggcgtgt gcgctcagcg cggccgagcg aggctgacgt 2520
183 gcccgcccaa gcgcgcgccc gggagtgtgt gtgcgggtgt gtgtgtgcgg gagtgtgtgc 2580
184 gcacacgcct tcgggggctg gagtgacact gcagtgggct tctccgtagc cccagccttc 2640
185 aggctgcgca gcccctaacc tgccggcacc gcttttggga agcagcttgg ctcttccatc 2700
186 tccccaagcc ttcctctcca tcctttcatc cacccctcgc cgatcttact ttttctttta 2760
187 cccacggggc cgcggccggc caccccctgg ccggtgcaaa cacccaagcc ctctccagtt 2820
188 ctcccccaag ctaatatttt cccacctgtc tttttctggg gttcctccac gagccagtcc 2880
189 aaggctcccc catcctcgga aattgttttg ttggactgct aaaccgaggc gtgtaaagct 2940
190 tgaggacttt attattattt gggttctttt catttcttcc ccttctgggc aacgaagcaa 3000
191 tgaaatttcc aatcgagacg ccaagaaaac aggtgaactg ggatcctaaa ggtgggtgtt 3060
192 tcctactttt ggctgccctc gccctgcctc tgtctccggc gtgtgcgcgc ttccttgagt 3120
193 ggaagcactc ttgcttctgg cagcgtgtgt cctgaggctg ggaaatgcgc ctgggaactg 3180
194 cagcgcgggt gggaggaggg cggaggcagc gtgggttccg aacccagata gtgcctgtca 3240
195 ttaccacata atcattgtcc ctcctagatt gtctccagat ctatttagat agaccaagcc 3300
196 gactgtttgg tttgaaattg caagtgtcgg tatttgcttt tgactttgag tgtgcgagtg 3360
197 tgtgtgtgtg tgtgtgtgtg tgtcctttgt ttctggtgat ctttgtctct ctggcagatg 3420
198 ggtggggtgc ttccccctgg acctggagct gcgccgcatg cccgggtgtc ctcagtggga 3480
199 aaggtttcct ggcagcaagt ggggctcgag ttgcagcagc cgtccctagg ggtgggccgt 3540
200 tctcgcaggg catgcagaat aatggagccc acagggcctc ctgagtcttc gttcaatctt 3600
201 attaccaaac ctagcagcta gttaggctca ggtcagagta gaagcaggag gaggggtggt 3660
202 ttgtgagaag ggtggggctg gcaaggcata ggggaggggc acgaagtgtg cccgcccaag 3720
203 caatggtgtg gtttgcatgc ttttacgaat gttggaccag gtttcatcca cgcaaaaggg 3780

RAW SEQUENCE LISTING DATE: 05/13/2003
PATENT APPLICATION: US/09/729,920B TIME: 11:41:40

Input Set : A:\PTO.AMC.TXT
Output Set: N:\CRF4\05132003\I729920B.raw

204 agggattaag acggatttgt gtgtgcctag cgtcggccac cgtgtctgta attagcatac 3840
205 agatgttaag gctccaaggg agtgatcagt atgagagcag aacaagttgg aaccgcgtgt 3900
206 ccagttgtga caagaatgct ctttagcatt tcttgtagct catctgacga ctgtgtcagg 3960
207 ctaggcaacg cctctgtgtg tattggaatt gaaatttgtt tatttggggt gcgtgtgtgt 4020
208 ttaatgttct ttatgagcgc atttcttctt tttctccaga ctggaaagaa gaaaccatct 4080
209 tatttgttga gtaaatgtct taggaattga ctggctattg aagagtgagt gaagagatac 4140
210 tgccttttta aaacactgag gctgttacat cttaaataca gcccaaacct tctattttgt 4200
211 ctctacttga aatctctgga aatatggagg tgtgcctttg ctttttgggg gggagaatcc 4260
212 ctgaaaagca tatttgttaa atacctatta catgctaaac actgtcctaa gctctggaga 4320
213 tacagtcaga acaggaaaga taaaagctct gacttggagt ttacagtgag ggagacagac 4380
214 ctaaatcaat tccatggagg aatgcataat tcaaagttta tgtatgctcc agggagagca 4440
215 tcagaggttt aagaaagtgt ctgatagaag agattgacaa ggaccagaga aggcttccct 4500
216 gaggacatga cacttggact taggcctgga ggatgtatag gagttaattg tctaaggagg 4560
217 aggggaattg ttgcagaaga gggaacagca agtgcaaagg gcctgaggca gaagaggtat 4620
218 gtgtatatga tgaactgaaa ggaggttccc atggctacgg cagagtgagt gaagaggtat 4680
219 tgccttttt aaacacccag gctgttatac tgtaaataca gcacaaacct ttcattttgt 4740
220 ctctatttga aacctctgga aatacggaag tgtgccttgg ctttcttttg ggaaatccct 4800
221 gaaaaatgta tttatcccta gcagagagca agagggcttg tgttttgaga tatgactggg 4860
222 ggatccacag gcgagacgcc cccctccaag ccctgtgttg ttggaggtgg ggtagcattg 4920
223 tggggttgga agagtatagt atttatctaa agccaatgaa gagtttcaag acgaggagtg 4980
224 acatgatttg agctaagttt caaaacaagt gctgtgtggc tcttgtggat gtaggggacc 5040
225 agatacaatg gtagcatggg ccagggtggt tgctgtgggc atggagaagc ggacggagta 5100
226 gagagctgta gaggacgtga aatcaacagg ctttgcatga ataatgtgtg gaagtgaagt 5160
227 gaaggaattg gaatgactga gatggcagcc agggcaggac cagtcttgaa ggaaagctca 5220
228 tgagttcaat ctaggacttg ttgagtagga catgtcccca agccatccaa ggggtgtgtt 5280
229 aggtgggcag ctgtctaagt gctggggtca ggatcttcaa ggaacagagg gagtaccgtg 5340
230 agactgattt tgtgaagctg gctttgtgtt ttaaggtaca tttctgtgtg atcatcattc 5400
231 tatatattca tgttacagtg atgaacacag acaaatttta cacattttac agcctgacac 5460
232 agtgaagaaa agcatacaaa tagcaccttc agttacaacc agtggtgcta aaaatgaaaa 5520
233 aaacctcaat aaaaataaca acatttaatg agcaaccatt gcatgccagg tgctttatgt 5580
234 acattgtttc atacaattat tttcacaata cttatctgat ggtataagtg ttatagttcc 5640
235 atttggcact tgattgccat catgacacca ctaatctgcc ttccagtgga gttgctctga 5700
236 ctttgtgcac agttattccc aaaggtaggg gtgacagtag tctttttcta gccaggggat 5760
237 ggaggaggga agagagtgag gagtgaggtg gcatatctct tatctgtata gaattatgtg 5820
238 ctaggtgctc ttctaatgtt ttacatgtgt taatttaatc ttcacaaaca ttttaggaga 5880
239 aaggtattat cctaatttta cagatgagtt aactgaggaa cagagagttt gagtaacttg 5940
240 cccaaggttg cacagctagt aggacaagat tagaatctgg gctcttaaac actcttcaag 6000
241 tctgtgtttc ttattgggac ttttggcttt tgcctggtaa ggttcccaaa gctcaggaag 6060
242 tggagaagct tgttgcgagg aggaaaagga gaagagagag gatgaagagg aaaagggaat 6120
243 ggaataggag gaggataaaa gagaggaaga gagaggagga aggagaagag gagacagtgg 6180
244 ctcaagctta ccctacttgt tcctttctct actaacctat tcagacaata atcttttcat 6240
245 ttccatgtct gatgggcaag tcagtgacta ctggacagag tttgggtctc tgttttggag 6300
246 gttctggatt acacagacca aatgtgttta gcagggaaaa gatgaagggg agcccagcag 6360
247 tattagggga aagtggagag acagttcaca ttacttggac tgtaggatat gtctatcaac 6420
248 agacatgacc cttcaggcgg aggtgctctc atgggttctg gaaggcagtt gtaattataa 6480
249 tgtttttctt acagccttat taccctacaa tttaatagca aaaaatgaag gtggtttgag 6540
250 aatagattgg tttggatagc atttgggtgg attaagcaaa gcattgtcaa gaggtgtagg 6600
251 taaaaacaag acccaaatat aaaatggttc atctctggtg agctatggcc ttccttcata 6660
252 ttcatggaac agagacttct acgaagagcg ttactgtttg tgtaggacct accacaagta 6720

VERIFICATION SUMMARY DATE: 05/13/2003
PATENT APPLICATION: **US/09/729,920B** TIME: 11:41:41

Input Set : **A:\PTO.AMC.TXT**
Output Set: **N:\CRF4\05132003\I729920B.raw**

1600

RAW SEQUENCE LISTING DATE: 05/08/2003
PATENT APPLICATION: **US/09/729,920B** TIME: 14:19:09

Input Set : **A:\Seqlist.txt**
Output Set: **N:\CRF4\05082003\I729920B.raw**

```
 2 <110> APPLICANT: GUEGLER, Karl et al
 4 <120> TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
 5       NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
 6       AND USES THEREOF
 8 <130> FILE REFERENCE: CL000858
10 <140> CURRENT APPLICATION NUMBER: 09/729,920B
11 <141> CURRENT FILING DATE: 2000-12-06
13 <160> NUMBER OF SEQ ID NOS: 5
15 <170> SOFTWARE: FastSEQ for Windows Version 4.0
```

ERRORED SEQUENCES

```
2605 <210> SEQ ID NO: 5
2606 <211> LENGTH: 538
2607 <212> TYPE: PRT
2608 <213> ORGANISM: Rattus norvegicus
2610 <400> SEQUENCE: 5
2611 Met Lys Phe Pro Ile Glu Thr Pro Arg Lys Gln Val Asn Trp Asp Pro
2612  1               5                  10                  15
2613 Lys Val Ala Val Pro Ala Ala Ala Pro Pro Val Cys Gln Pro Lys Ser
2614             20                  25                  30
2615 Ala Thr Asn Gly His His Pro Val Pro Arg Leu Ser Ile Ser Ser Arg
2616         35                  40                  45
2617 Ala Thr Val Val Ala Arg Met Glu Gly Ala Ser Gln Gly Gly Leu Gln
2618     50                  55                  60
2619 Thr Val Met Lys Trp Lys Thr Val Val Ala Ile Phe Val Val Val Val
2620 65                  70                  75                  80
2621 Val Tyr Leu Val Thr Gly Gly Leu Val Phe Arg Ala Leu Glu Gln Pro
2622                 85                  90                  95
2623 Phe Glu Ser Ser Gln Lys Asn Thr Ile Ala Leu Glu Lys Ala Glu Phe
2624             100                 105                 110
2625 Leu Arg Asp His Ile Cys Val Ser Pro Gln Glu Leu Glu Thr Leu Ile
2626         115                 120                 125
2627 Gln His Ala Leu Asp Ala Asp Asn Ala Gly Val Ser Pro Val Gly Asn
2628     130                 135                 140
2629 Ser Ser Asn Ser Ser Ser His Trp Asp Leu Gly Ser Ala Phe Phe Phe
2630 145                 150                 155                 160
2631 Ala Gly Thr Val Ile Thr Thr Ile Gly Tyr Gly Asn Ile Ala Pro Ser
2632                 165                 170                 175
2633 Thr Glu Gly Gly Lys Ile Phe Cys Ile Leu Tyr Ala Ile Phe Gly Ile
2634             180                 185                 190
2635 Pro Leu Phe Gly Phe Leu Leu Ala Gly Ile Gly Asp Gln Leu Gly Thr
```

p.2

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING DATE: 05/08/2003
PATENT APPLICATION: **US/09/729,920B** TIME: 14:19:09

Input Set : **A:\Seqlist.txt**
Output Set: **N:\CRF4\05082003\I729920B.raw**

```
2636          195                 200                 205
2637 Ile Phe Gly Lys Ser Ile Ala Arg Val Glu Lys Val Phe Arg Lys Lys
2638      210                 215                 220
2639 Gln Val Ser Gln Thr Lys Ile Arg Val Ile Ser Thr Ile Leu Phe Ile
2640 225                 230                 235                 240
2641 Leu Ala Gly Cys Ile Val Phe Val Thr Ile Pro Ala Val Ile Phe Lys
2642                 245                 250                 255
2643 Tyr Ile Glu Gly Trp Thr Ala Leu Glu Ser Ile Tyr Phe Val Val Val
2644             260                 265                 270
2645 Thr Leu Thr Thr Val Gly Phe Gly Asp Phe Val Ala Gly Gly Asn Ala
2646          275                 280                 285
2647 Gly Ile Asn Tyr Arg Glu Trp Tyr Lys Pro Leu Val Trp Phe Trp Ile
2648      290                 295                 300
2649 Leu Val Gly Leu Ala Tyr Phe Ala Ala Val Leu Ser Met Ile Gly Asp
2650 305                 310                 315                 320
2651 Trp Leu Arg Val Leu Ser Lys Lys Thr Lys Glu Glu Val Gly Glu Ile
2652                 325                 330                 335
2653 Lys Ala His Ala Ala Glu Trp Lys Ala Asn Val Thr Ala Glu Phe Arg
2654             340                 345                 350
2655 Glu Thr Arg Arg Arg Leu Ser Val Glu Ile His Asp Lys Leu Gln Arg
2656          355                 360                 365
2657 Ala Ala Thr Ile Arg Ser Met Glu Arg Arg Arg Leu Gly Leu Asp Gln
2658      370                 375                 380
2659 Arg Ala His Ser Leu Asp Met Leu Ser Pro Glu Lys Arg Ser Val Phe
2660 385                 390                 395                 400
2661 Ala Ala Leu Asp Thr Gly Arg Phe Lys Ala Ser Ser Gln Glu Ser Ile
2662                 405                 410                 415
2663 Asn Asn Arg Pro Asn Asn Leu Arg Leu Lys Gly Pro Glu Gln Leu Asn
2664             420                 425                 430
2665 Lys His Gly Gln Gly Ala Ser Glu Asp Asn Ile Ile Asn Lys Phe Gly
2666          435                 440                 445
2667 Ser Thr Ser Lys Leu Thr Lys Arg Lys Asn Lys Asp Leu Lys Lys Thr
2668      450                 455                 460
2669 Leu Pro Glu Asp Val Gln Lys Ile Tyr Lys Thr Phe Arg Asn Tyr Ser
2670 465                 470                 475                 480
2671 Leu Asp Glu Glu Lys Lys Glu Asp Glu Thr Glu Lys Met Cys Asn Ser
2672                 485                 490                 495
2673 Asp Asn Ser Ser Thr Ala Met Leu Thr Glu Cys Ile Gln Gln Gln Ala
2674             500                 505                 510
2675 Glu Met Glu Asn Gly Met Val Pro Met Asp Thr Lys Asp Gln Gly Leu
2676          515                 520                 525
2677 Glu Asn Asn Ser Leu Leu Glu Asp Arg Asn
2678      530                 535
E--> 2680 1
```

VERIFICATION SUMMARY DATE: 05/08/2003
PATENT APPLICATION: **US/09/729,920B** TIME: 14:19:10

Input Set : **A:\Seqlist.txt**
Output Set: **N:\CRF4\05082003\I729920B.raw**

L:2680 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5